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(5), (6), (9) and (21) indicated below.

JC10 Rec'd PCT/PTO 23 MAR

Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER 21405 US C038435/0185664

INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/EP2003/010293 16 September 2003

27 September 2002

TITLE OF INVENTION

<u>ASTAXANTHIN PRODUCTION USING FED-BATCH FERMENTATION PROCESS BY PHAFFIA RHODOZYMA</u> APPLICANT(S) FOR DO/EO/US Tatsuo HOSHINO, Yutaka SETOGUCHI, and Yoshinori TAKAGI Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items

4.	X	The US has been elected (Article 31).	
5.	X	A copy of the International Application	as filed (35 U.S.C. 371(c)(2))
		a. is attached hereto (required	only if not communicated by the International Bureau).
		b. X has been communicated by	the International Bureau.

	c. is not required, as the application was filed in the United States Receiving Office (RO/US
6. L	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).

	a. 🗆	is attached hereto.
(5.2 1)	b. 🗀	has been previously submitted under 35 U.S.C. 154(d)(4).

/. النكا	Amename	nts to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
	a. 🗆	are attached hereto (required only if not communicated by the International Bureau).
	ь. 🔲	have been communicated by the International Bureau.

C.	ш	have not been made; however, the time limit for making such amendments has NOT expired.
d.	X	have not been made and will not be made.

An English language translation of the amendments to the claims under PCT Article 19 (35 LLS C: 371(c)(3))

Ų.	_	AT English language ballstation of the amendments to the damin under 1 of Albert 1 (00 o.e.o. of 1/0/0/).
9.		An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).

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10.	An English language translation of	the annexes of the Inte	ernational Preliminary	Examination Report under PCT
	Article 36 (35 U.S.C. 371(c)(5)).	• ·	/ \ '	•

Items 11 to 20 below concern document(s) or information included:

11. 🔀	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. 🗌	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. X	A preliminary amendment.

14.	An Application Data Sheet under 37 CFR 1.76.	
15.	A substitute specification.	

40 🗀	A power of attorney and/or change of address letter.
16. 📖	A power of attorney and/or change of address letter.

17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
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4.	A second copy of the published International Application under 35 U.S.C.	4 = 4/4\/4\
18. 📖	A second copy of the published International Application under 35 U.S.C.	154(d)(4).

19. L	 A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
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20. 🔼	Other items or information:	Certificate of Express Mailing (1 page), Return Postcard

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO-1390 (Rev. 12-2004)
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l .	ing fees are submitte				Office use only						
X a) Basic na	ational fee				. \$300.00	\$	300.00				
b) Examin	ation fee	. \$200.00	\$	200.00							
C) Search	fee	\$500.00	\$	500.00							
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	c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-4467. A duplicate copy of this sheet is enclosed.										
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			CFR 1.495 has not been me on to pending status.	et, a pe	tition to revive	(37	CFR 1.137(a) or (b))	must be filed			
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